

1776-04/48-1351

School of Practical Science

PROVINCE OF ONTARIO.

(AFFILIATED TO THE UNIVERSITY OF TORONTO)

CLASS LIST

1897.



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FACULTY OF THE SCHOOL.

J. GALBRAITH, M. A., M. CAN. SOC. C. E., PRINCIPAL.

MEMBERS OF THE COUNCIL.

J. GALBRAITH, M. A., M. CAN. SOC. C. E. *Professor of Engineering (Chairman).*
W. H. ELLIS, M. A., M. B. *Professor of Applied Chemistry.*
A. P. COLEMAN, M. A., PH. D. *Professor of Assaying and Metallurgy.*
L. B. STEWART, O. L. S., D. T. S. *Lecturer in Surveying (Secretary).*
C. H. C. WRIGHT, B. A. Sc. *Lecturer in Architecture.*
T. R. ROSEBRUGH, M. A., GRAD. S. P. S. *Lecturer in Electrical Engineering.*
J. A. DUFF, B. A., GRAD. S. P. S. *Lecturer in Applied Mechanics.*
G. R. MICKLE, B. A., GRAD. S. P. S. *Lecturer in Mining Engineering.*

ASSISTANT INSTRUCTORS.

W. E. BOUSTEAD, B. A. Sc. *Acting Demonstrator in Metallurgy and Assaying.*
W. LAWSON, B. A. Sc. *Acting Demonstrator in Analytical and Applied Chemistry.*
J. KEELE, B. A. Sc. *Fellow in Civil Engineering.*
W. MINTY, B. A. Sc. *Fellow in Mechanical Engineering.*
A. T. LAING, B. A. Sc. *Fellow in Surveying.*
A. E. BLACKWOOD, GRAD. S. P. S. *Fellow in Electrical Engineering.*

MEMBERS OF THE FACULTY OF THE UNIVERSITY OF TORONTO WHOSE CLASSES
ARE ATTENDED BY THE REGULAR STUDENTS OF THE SCHOOL.

JAMES LOUDON, M. A. *President and Professor of Physics.*
R. RAMSAY WRIGHT, M. A., B. Sc. *Professor of Biology.*
W. H. PIKE, M. A., PH. D. *Professor of Chemistry.*
ALFRED BAKER, M. A. *Professor of Mathematics.*
A. B. MACALLUM, B. A., M. B., PH. D. *Professor of Physiology.*
W. J. LOUDON, B. A. *Demonstrator in Physics.*
C. A. CHANT, B. A. *Lecturer in Physics.*
J. C. McLENNAN, B. A. *Assistant Demonstrator in Physics.*
ALFRED T. DELURY, B. A. *Lecturer in Mathematics.*
W. L. MILLAR, B. A., PH. D. *Demonstrator in Chemistry.*
W. J. RUSK, B. A. *Fellow in Mathematics.*

SCHOOL OF PRACTICAL SCIENCE

TORONTO

(AFFILIATED TO THE UNIVERSITY OF TORONTO)

RESULTS OF ANNUAL EXAMINATIONS.

SESSION 1896-7.

DEPARTMENTS.

CIVIL ENGINEERING (INCLUDING SANITARY ENGINEERING).
MINING ENGINEERING.
MECHANICAL AND ELECTRICAL ENGINEERING.
ARCHITECTURE.
ANALYTICAL AND APPLIED CHEMISTRY.

DEGREES.

BACHELOR OF APPLIED SCIENCE (B. A. Sc.)
CIVIL ENGINEER (C. E.)
MINING ENGINEER (M. E.)
MECHANICAL ENGINEER (M. E.)
ELECTRICAL ENGINEER (E. E.)

Candidates are arranged alphabetically in the Departments and in the 4th or Post-Graduate year, in two classes, Honor and Pass.

DEPARTMENT OF CIVIL ENGINEERING.

Honors.

FIRST YEAR.	SECOND YEAR.	THIRD YEAR
Latham, R. Patterson, J. Shanks, T. Tennant, D. C.		Weekes, M. B.

Pass.

FIRST YEAR.	SECOND YEAR.	THIRD YEAR.
Allan, G. L. Bowes, J. L. Cooper, C. Finch, H. J. W. Newman, J. J.	Grant, W. F. Kormann, J. S. McNaughton, F. D. Perry, F. N. Shaw, J. H. Smith, R.	Carpenter, H. S. Proudfoot, H. W. Weldon, E. A.

DEPARTMENT OF MINING ENGINEERING.

Honors.

FIRST YEAR.	SECOND YEAR.	THIRD YEAR.
Revell, G. E.	Carter, W. E.	Bow, J. A. Robinson, A. H. Stull, W. W.

Pass.

FIRST YEAR.	SECOND YEAR.	THIRD YEAR.
Burnside, T. Clothier, G. A. Coulthard, R. W. Elliott, J. C. McArthur, R. E. Neelands, E. V. Watt, G. H.	Boyd, W. H.	Andrewes, E.

DEPARTMENT OF MECHANICAL AND ELECTRICAL
ENGINEERING.

Honors.

FIRST YEAR.	SECOND YEAR.	THIRD YEAR.
Baker, F. E. Burns, T. L. Chubbuck, L. B. Hare, W. A. Henderson, S. E. M. Van Every, W. W. Yeates, E. G.	Darling, E. H. Smallpiece, F. C. Wilkinson, T. A. Williamson, D. A.	Gray, A. T. Smillie, R.

Pass.

FIRST YEAR.	SECOND YEAR.	THIRD YEAR.
Barley, J. H. Clendening, W. G. Craig, J. A. Foreman, W. E. Guy, E. Hall, G. A. Hemphill, W. Monds, W. Pope, A. S. H. Rounthwaite, C. H. E. Roper, W. P. Saunders, G. A. Wagner, W. E.	Lavrock, G. E. Shipley, A. E.	Hicks, W. A. B. (con- ditioned).*

W. Hemphill was granted agrotat standing.

DEPARTMENT OF ARCHITECTURE.

Honors.

FIRST YEAR.	SECOND YEAR.	THIRD YEAR.
		Forward, E. A.

Pass.

FIRST YEAR.	SECOND YEAR.	THIRD YEAR.
	Mackintosh, D.	King, C. F. (condi- tioned).* Scott, W. F.

* The conditions were complied with before Oct. 1, and the candidates passed

DEPARTMENT OF ANALYTICAL AND APPLIED CHEMISTRY.

Pass.

FIRST YEAR.	SECOND YEAR.	THIRD YEAR.
	Kennedy, W. A.	Charlton, H. W.

PRIZEMEN.

THIRD YEAR.—Civil Engineering.

M. B. Weekes.

THIRD YEAR.—Mechanical and Electrical Engineering.

A. T. Gray.

The former prize is the gift of Mr. T. Kennard Thomson, C.E., New York, and the latter of Mr. F. A. Riehlé, Philadelphia.

SPECIAL CERTIFICATE.

Mining and Metallurgy—

E. B. Webster.

J. Hislop passed in the following subjects and thus obtained the standing of a regular student of the Third Year:—Mineralogy and Geology, Lithology, Metallurgy, Practical Mineralogy, Applied Chemistry.

H. L. Vercoe passed in the following Second Year subjects :—Astronomy, Surveying, Mineralogy and Geology.

T. Martin passed in Mining and Ore-Dressing, and Ore Deposits of the Third Year.

STANDING IN SUBJECTS.

I. YEAR.

DRAWING.	FIELD NOTES.	CONSTRUCTION NOTES.
Tennant. Newman. Latham. Baker. Shanks. Van Every. Wagner. Burnside. Hare. Monds. Chubbuck. McArthur, R. E. Henderson. Roper. { Patterson. { Coulthard. { Clothier. { Foreman. { Hemphill. { Yeates. { Bowes. { Pope. { Allan. { Hall. { Revell. Barley. Watt. Saunders. Clendening. Burns. Rounthwaite. Craig. Neelands. Elliott. Finch. Cooper, C. Guy.	Tennant. Burnside. Shanks. Newman. Patterson. { Latham. { Cooper, C. { Neelands. { Bowes. Finch. Allan. { Watt. { McArthur, R. E. { Coulthard. Clothier. Revell. Elliott.	Van Every. Chubbuck. Henderson. Baker. Hare. Hemphill. Pope. { Foreman. { Monds. Clendening. { Burns. { Guy. { Barley. { Hall. { Yeates. Wagner. Craig. Rounthwaite. Saunders.

I. YEAR.

EXPERIMENTAL PHYSICS.	PRACTICAL CHEMISTRY.	PRACTICAL ELECTRICITY.
{ Chubbuck. { Monds. { Burns. { Baker. Rounthwaite. { Yeates { Henderson. Pope. Hare. { Foreman. { Hemphill. Craig. Wagner. { Saunders. { Hall. Van Every. Barley. { Clendening. { Guy.	{ Patterson. { Shanks. Monds. { Chubbuck. { Van Every. Henderson. Watt. { Baker. { Burns { Craig. { Coulthard. { Cooper, C. { Tennant. { Hemphill. { Allan. { Yeates. { Nee'ands. { Revell. { Newman. { Latham. { Foreman. { Roper. { Clothier. Bowes. { Finch. Pope. Wagner. { Elliott. { McArthur, R. E. { Clendening. Saunders. { Burnside. { Barley. Rounthwaite. { Guy. { Hall. Hare.	Baker. Van Every. Hare. Henderson. Wagner. { Burns. { Chubbuck. { Hall. Hemphill. { Barley. { Saunders. { Clendening. { Pope { Guy. { Monds. Rounthwaite. Foreman. Yeates. Craig.

I YEAR.

ALGEBRA.	EUCLID.	PLANE TRIGONOMETRY.
Yeates.	Shanks.	{ Revell.
Henderson.	Patterson.	{ Shanks.
Patterson.	Latham.	Patterson.
{ Shanks.	{ Tennant.	Tennant.
{ Revell.	{ Henderson,	Henderson.
Monds.	{ Revell.	{ Coulthard.
Burns.	Yeates.	{ Yeates.
Chubbuck.	Monds.	{ Burns.
Foreman.	Chubbuck.	{ Chubbuck.
McArthur, R. E.	Clothier.	Latham.
Van Every.	{ Burns.	Monds.
Pope.	{ Allan.	Clendenning.
Watt.	{ Craig.	Bowes.
{ Wagner.	Baker.	Van Every.
{ Cooper, C.	Clendenning.	Craig.
{ Allan.	Barley.	Clothier.
{ Coulthard.	Burnside.	Burnside.
Craig.	Bowes.	Wagner.
{ Bowes.	Wagner.	{ Allan.
{ Clendenning.	{ Hare.	{ Elliott.
Tennant.	{ Rounthwaite.	{ Hare.
Clothier.	{ Cooper, C.	{ Saunders.
Saunders.	{ Pope.	Pope.
{ Finch.	{ Hemphill.	Newman.
{ Barley.	{ Coulthard.	Guy.
{ Rounthwaite.	{ Newman.	{ McArthur, R. E.
{ Baker.	{ Neelands.	{ Rounthwaite.
{ Newman.	{ Saunders.	Cooper, C.
{ Hemphill.	Van Every.	{ Baker.
Latham.	Roper.	{ Watt.
Elliott.	Foreman.	Hall
Hare.	Watt.	Finch.
Hall.	McArthur, R. E.	Roper.
Neelands.	Hall.	Hemphill.
Roper.	Elliott.	Barley.
	Finch.	Neelands.

I YEAR.

ANALYTICAL GEOMETRY.	ELEMENTARY CHEMISTRY.	DESCRIPTIVE GEOMETRY.
Hare. Shanks. { Henderson. { Patterson. Revell. { Chubbuck. { Wagner. { Coulthard. { Elliott. Craig. { Latham. { Van Every. Foreman. { Burns. { Burnside. { Tennant. Barley. Monds. Pope. Baker. { Roper. { Watt. { Allan. { McArthur, R. E. { Saunders. Clendening. { Guy. { Hall. { Rounthwaite. { Yeates. { Bowes. { Clothier. { Cooper, C. { Newman. Finch.	{ Patterson. { Yeates. Shanks. { Burns. { Henderson. { Newman. { Monds. { Wagner. { Revell. { Saunders. { Coulthard. { Rounthwaite. { Craig. Tennant. { Latham. { Chubbuck. Pope. Barley. { Van Every. { Bowes. Grey. Clendening. { Watt. { Baker. { Neelands. { Cooper, C. Elliott. Hare. Allan. { Burnside. { Finch. Hemphill. McArthur, R. E. Hall. Clothier. Roper.	{ Tennant. { Chubbuck. Shanks. Patterson. Barley. Revell. Pope. { Henderson. { Hare. { Rounthwaite. { Coulthard. { Wagner. { Grey. { Burns. Bowes Baker. Van Every. { Clendening. { Clothier. Allan. { Yeates. { Hemphill. Latham. Craig. { Newman. { Watt. { Monds. { Finch. { Saunders. { Burnside. { Foreman. McArthur, R. E. Hall. Neelands. Elliott. Roper. Cooper, C.

I. YEAR.

STATICS.	DYNAMICS.	SURVEYING.
Patterson. Shanks. Tennant. Revell. Hare. Latham. { Chubbuck. { Henderson. Newman. Monds. { Burns. { Yeates. Bowes. Saunders. Van Every. McArthur, R. E. { Coulthard. { Guy. Hemphill. { Allan. { Clothier. { Roper. { Foreman. { Hall. { Pope. { Rounthwaite. Baker.	Henderson. Shanks. Chubbuck. Burns. Yeates. Patterson. Baker. Hare. Newman. { Wagner. { Coulthard. Craig. { Tennant. { Revell. { Pope. { Burnside. Van Every. Watt. Saunders. { Rounthwaite. { Elliott. { Clendening. McArthur, R. E. { Neelands. { Cooper. Clothier. { Foreman. Allan. { Latham. Guy. { Finch.	Shanks. Henderson. Patterson. Revell. Monds. Hare. Yeates. Van Every. Burns. Burnside. { Guy. { Hemphill. { Saunders. { Foreman. { Chubbuck. { Clothier. Latham. { Hall. { Tennant. { Wagner. { Newman. Allan. Baker. { Bowes. { Clendening. Watt. Coulthard. Neelands. Cooper, C. Barley. Craig. Roper. Rounthwaite. Elliott. McArthur, R. E. Finch.

I. YEAR.

ELECTRICITY AND MAGNETISM.	ELECTRICITY.	
Chubbuck. Monds. Henderson. Yeates. Craig. Saunders. { Burns. { Guy. Van Every. Baker. Barley. Wagner. Hare. Pope.	Henderson. Burns. Monds. Yeates. Chubbuck. Baker. Saunders. Van Every. Pope. Hare. { Rounthwaite. { Barley. Wagner. Foreman. { Craig. { Guy. Roper. Burns. Clendening.	

II. YEAR.

DRAWING.	THESIS.	CONSTRUCTION NOTES.
Lavrock. Williamson. Darling. McNaughton. Shipley. Carter. Wilkinson. Smallpiece. Macintosh. { Boyd. { Grant. { Smith. { Kormann. { Shaw. { Perry.	Mackintosh. { McNaughton. { Smallpiece. { Carter. { Shipley. { Lavrock. { Shaw. { Wilkinson. { Darling. { Smith. { Williamson. { Grant. { Kormann. { Boyd. { Perry.	McNaughton. Lavrock. Carter. Shipley. Darling. Williamson. Smith. Smallpiece. Wilkinson. { Mackintosh. { Shaw. { Boyd. { Kormann. { Perry.

FIELD NOTES.	EXPERIMENTAL PHYSICS, CIVIL AND MINING ENGINEERING AND ARCHITECTURE.*	EXPERIMENTAL PHYSICS, MECHANICAL AND EL- ECTRICAL ENGINEERING AND APPLIED CHEMI- STRY.
McNaughton. Grant. { Boyd. { Kormann. { Mackintosh. { Shaw. { Smith. { Carter. { Perry.	Shaw. Carter. McNaughton. Mackintosh. { Grant. { Smith. { Kormann. { Perry.	{ Lavrock. { Wilkinson. { Darling. { Shipley. { Smallpiece. { Williamson. { Kennedy.

* Boyd passed in this subject last year.

II. YEAR.

PRACTICAL ELECTRICITY.	PRACTICAL MINERALOGY.	PRACTICAL CHEMISTRY.
Smallpiece. Darling. { Lavrock. Williamson. Wilkinson. Shipley. Charlton. Kennedy.	Shaw. Smith. Kormann. Grant. McNaughton. Carter. { Perry. Boyd.	Smallpiece. Grant. Williamson. Kennedy. McNaughton. { Kormann. Lavrock. Wilkinson. Darling. Shipley. Carter. Smith. Shaw. { Boyd. Perry.

II. YEAR.

APPLIED CHEMISTRY.	CALCULUS.	HYDROSTATICS.
Kennedy. { Carter. { Shipley. Grant. Darling. { Mackintosh. { Smallpiece. { Lavrock, { Smith. Wilkinson. Shaw. { Kormann. { McNaughton. Williamson. { Boyd. { Perry.	Smallpiece. Williamson. Wilkinson, Carter. Darling. { Boyd. { Smith. Grant. Shaw. McNaughton. Kormann. { Lavrock. { Perry. { Mackintosh. { Shipley.	Smallpiece. Shipley. Williamson. Mackintosh. Darling. Shaw. Wilkinson. Carter. Smith. Perry. Lavrock. Grant. Kennedy. Boyd. Kormann. McNaughton.

OPTICS.	STRENGTH OF MATERIALS.	RIGID DYNAMICS.
Williamson. Darling. Smith. Carter. Shipley. { Grant. { Smallpiece. Wilkinson Lavrock, Shaw. Perry. Boyd. { Mackintosh. { McNaughton. Kennedy. Kormann.	Williamson. Smallpiece. Wilkinson. Carter, Darling. Shipley. Grant. Perry. Shaw. { Boyd. { Lavrock. { Mackintosh. { Smith,	Williamson. Smallpiece. Wilkinson. { Grant. { Shaw. Darling. McNaughton. Shipley. { Carter. { Kormann. { Smith. Lavrock.

II. YEAR.

DESCRIPTIVE GEOMETRY.	SPHERICAL TRIGNOMETRY.	SURVEYING.
Williamson. Darling. Wilkinson. Carter. Lavrock. Smallpiece. Smith. Mackintosh. Grant. { Boyd. { McNaughton. Kormann. Shaw.	Carter. Smith. Smallpiece. Perry. Kormann. Grant. Williamson. { Darling. { Boyd. { Wilkinson. McNaughton. Shipley. Lavrock.	Carter. Grant. Smith. Shaw. Mackintosh. { Perry. { McNaughton. Boyd.
ASTRONOMY.	METALLURGY.	MINERALOGY AND GEOLOGY.
Shaw. Smith. Perry. Kormann. { Grant. { McNaughton.	Carter. Darling. Shipley. Wilkinson. Smallpiece. Kennedy. { Williamson. { Mackintosh. Lavrock. Shaw. Smith. Boyd. McNaughton. Grant. Perry.	McNaughton. Carter. Perry. Kennedy. Smith. Boyd. Kormann.

II. YEAR.

LITHOLOGY.	ELECTRICITY.	THEORY OF MECHANISM.
Boyd. Carter.	Smallpiece. Williamson. Wilkinson. Shipley. Lavrock. Darling. Kennedy.	Williamson. Wilkinson. Smallpiece. Shipley. Lavrock. Darling.

HISTORY OF ARCHITECTURE.	HISTORY OF ORNAMENT.	ORDERS OF ARCHITECTURE.
Mackintosh.	Mackintosh.	Mackintosh.

ARCHITECTURAL SKETCHES.	HEAT.	CHEMISTRY.
Mackintosh.	Kennedy.	Kennedy.

III. YEAR.

DRAWING.	THESIS.	CONSTRUCTION NOTES.
Smillie. Bow. Gray. Robinson. Forward. Andrewes. Scott. Weekes. Proudfoot. Stull. Carpenter. Weldon.	{ Gray. { Bow. { Forward. { Robinson. Stull. Smillie. Charlton. Andrewes. Weekes. Carpenter. Proudfoot. Weldon. Scott.	Forward. Bow. Gray. { Scott. { Smillie. Carpenter. Stull. Robinson. { Weekes. { Proudfoot. { Andrewes. { Weldon.

FIELD NOTES.	EXPERIMENTAL PHYSICS.	PRACTICAL MINERALOGY.
Proudfoot. { Bow. { Robinson. Andrewes. { Carpenter. { Weldon. Weekes. Stull.	Forward. { Weldon. { Carpenter. { Gray. { Scott. { Weekes. { Proudfoot. { Smillie.	{ Andrewes. { Bow. { Robinson. { Weekes. { Carpenter. { Stull. { Weldon. Proudfoot.

III. YEAR.

Practical Electricity.	Practical Chemistry.	Applied Chemistry.
{ Gray. { Smillie.	Robinson. Charlton. Stull. Andrewes. Bow.	Charlton. Robinson. Andrewes. Weekes. Bow. Carpenter. Forward. Gray. Stull. Scott. Smillie. Weldon. Proudfoot.
Descriptive Geometry.	Thermodynamics.	Hydraulics.
Bow. { Forward. { Robinson. Weekes. Stull. Smillie. Gray. Proudfoot. Andrewes. Weldon, Scott. Carpenter.	GEARING { Andrews. { Stull. Carpenter. Smillie. Weldon. Bow. Weekes. Robinson. Gray. Proudfoot.	Bow . Proudfoot. Weekes. Forward. { Stull. { Robinson. { Carpenter. { Scott. Smillie. Andrewes. Gray. Weldon.

III. YEAR.

THEORY OF CONSTRUCTION.	THEORY OF COMPOUND STRESS.	METHOD OF LEAST SQUARES.
Forward. Weekes. Smillie. Proudfoot. { Scott. { Stull. Bow. Carpenter. Gray. Robinson. Weldon. Andrewes.	Weekes. Proudfoot Gray. Smillie. Carpenter. Forward. Scott. Weldon.	Gray. Smillie. Carpenter. Proudfoot. Weekes. Weldon.
PRACTICAL ASTRONOMY AND GEODESY.	ELECTRICITY.	SURVEYING AND LEVELLING.
{ Proudfoot. { Weekes. Weldon. Carpenter.	Gray. Smillie.	Proudfoot. Robinson. Bow. Stull. Weekes. Andrewes. Carpenter. Weldon.
MECHANICS OF MACHINERY.	MACHINE DESIGN.	METALLURGY.
Smillie. Gray.	Gray. Smillie.	Robinson. Bow. Stull. Gray. Andrewes. Charlton. Smillie.

III. YEAR.

MINERALOGY AND GEOLOGY.	MINING AND ORE DRESSING.	ORE DEPOSITS.
Bow. Weekes. Robinson. Stull. Andrewes. Forward. Prondfoot. Charlton. Carpenter. Weldon. Scott.	Robinson. Bow. Stull. Andrewes.	Robinson. Bow. Andrewes. Stull.
PHYSICAL CHEMISTRY.	BIOLOGY.	PRACTICAL BIOLOGY.
Charlton.	Charlton.	Charlton.
CHEMISTRY.	SANITARY SCIENCE.	ARCHITECTURAL SKETCHES.
Charlton.	Forward. Scott.	Scott. Forward.
HISTORY OF ARCHITECTURE.	HISTORY OF ORNAMENT.	
Forward. Scott.	Forward. Scott.	

FOURTH OR POST-GRADUATE YEAR.

Degree of Bachelor of Applied Science (B.A.Sc.)

UNIVERSITY OF TORONTO.

SCHOOL OF PRACTICAL SCIENCE CERTIFICATE.	THESIS.	THERMODYNAMICS.
<i>Honors.</i> Angus, R. W. Bain, J. W. Elliott, H. P. Haight, H. V. Harkness, A. H. <i>Pass.</i> Macbeth, C. W. Martin, T.	<i>Honors.</i> Angus, R. W. Bain, J. W. Elliott, H. P. Haight, H. V. Harkness, A. H. Martin, T. <i>Pass.</i> Macbeth, C. W.	<i>Honors.</i> Angus, R. W. Haight, H. V. <i>Pass.</i> Elliott, H. P. Macbeth, C. W.

STRENGTH AND ELASTI- CITY OF MATERIALS.	ELECTRICITY.	ARCHITECTURE.
<i>Honors.</i> Harkness, A. H.	<i>Honors.</i> Angus, R. W. Elliott, H. P. Haight, H. V. <i>Pass.</i> Macbeth, C. W.	<i>Pass.</i> Harkness, A. H.

MINEROLOGY AND GEOLOGY.	METALLURGY AND ASSAYING.	HYDRAULICS.
<i>Honors.</i>	<i>Honors.</i>	<i>Pass.</i>
Bain, J. W.	BAIN, J. W.	Macallum, A. F.
<i>Pass.</i>	<i>Pass.</i>	
Martin, T.	Martin, T.	

DEGREE OF B.A. Sc.

Honors.

Angus, R. W.
 Bain, J. W.
 Elliott, H. P.
 Haight, H. V.
 Harkness, A. H.

Pass.

Macbeth, C. W.
 Martin, T.

DEGREE OF M.E. (Mining Engineer.)

Bucke, M.A.

SUPPLEMENTAL EXAMINATIONS PASSED.

FIRST YEAR SUBJECTS.

Statics.—Bray.
Analytical Geometry.—McMichael.
Descriptive Geometry.—Gordon.
Surveying.—Boyd, Collins.
Plane Trigonometry.—McMichael.
Algebra.—Little.
Euclid.—Lavrock.
Elementary Chemistry.—Lavrock.

SECOND YEAR SUBJECTS.

Strength of Materials.—Carpenter, Weldon, King, Scott.
Calculus.—King, Weldon.
Mineralogy and Geology.—Weekes.
Rigid Dynamics.—Alexander.

FOURTH YEAR SUBJECT.

Hydraulics.—Macallum, A. F.

SUPPLEMENTAL EXAMINATIONS TO BE TAKEN.

FIRST YEAR SUBJECTS.

Statics.—Cooper, C., Finch, Burnside, Elliott, Neelands, Watt, Barley, Clendening, Craig, Wagner.
Dynamics.—Bowes, Barley, Hall, Monds, Roper.
Algebra.—Burnside.
Electricity and Magnetism.—Clendening, Foreman, Hall, Rounthwaite, Roper.
Analytical Geometry.—Neelands.
Plane Trigonometry.—Foreman.
Surveying.—Pope.

SECOND YEAR SUBJECTS.

Construction Notes.—Grant.
Practical Chemistry.—Mackintosh.
Mineralogy and Geology.—Grant, Shaw, Mackintosh.
Descriptive Geometry.—Perry, Shipley.
Metallurgy.—Kormann.
Spherical Trigonometry.—Shaw.
Practical Mineralogy.—Kennedy.
Strength of Materials.—Kormann, McNaughton.
Rigid Dynamics.—Perry.

